KEY TO THE GENERA OF SCIOMYZIDAE (DIPTERA) FROM THE AMERICAS SOUTH OF THE UNITED STATES, WITH DESCRIPTIONS OF TWO NEW GENERA

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ABSTRACT—A key is presented to the genera of Sciomyzidae (Diptera) known from the Americas south of the United States including two new genera, Eutrichomelina Steyskal (proposed for Sciomyza fulvipennis Walker) and Calliscia Steyskal (proposed for Pherbellia callisceles Steyskal).

Existing keys to the genera of snail-killing flies (Sciomyzidae) from the Americas south of the United States (e.g., Malloch, 1933) are incomplete and out of date. The key presented below includes all genera to be included in the chapter on Sciomyzidae in the catalogue of South American Diptera (Knutson, et al., in press).

Two new genera are described in the key: Eutrichomelina Steyskal, for Sciomyza fulvipennis Walker; and Calliscia Steyskal, for Pherbellia callisceles Steyskal. The key also includes the monotypic genus Pseudomelina Malloch, based on characters given in the original description. The male holotype of Pseudomelina apicalis Malloch (from Puerto Montt, Chile) apparently is not in the British Museum (N.H.), and no other specimens are known to us. The tribal placement of Pseudomelina, as discussed by Kaczynski, et al. (1969), is in question.

It should also be noted that several genera included in the key are primarily North American taxa that are not known to occur south of the Isthmus of Panama (*Antichaeta*, *Atrichomelina*, *Euthycera*, *Hoplodictya*, *Sepedon* and *Tetanocera*). References to keys to species are noted for each genus, where pertinent.

- Propleural bristle present (Sciomyzini, plus Perilimnia and Shannonia [Tetanocerini])
 Propleural bristle absent, only fine hairs on propleuron (Tetanocerini, plus Pseudomelina [Sciomyzini])
- 2. Propleural bristle short and fine, only slightly larger than propleural hairs; nearly entire meso- and sternopleuron, center of pteropleuron, and upper posterior edge of hind coxa with fine hairs; fore tarsus with basitarsus white, distal 4 segments black (A. pubera (Loew)) Atrichomelina Cresson
- Propleural bristle long and coarse or if short and fine (Shannonia) then without the above combination of characters
- 3. Anal vein of wing not reaching margin; wing vein R_1 not extending apicad of anterior crossvein; 2 pairs of dorsocentral bristles; anterior pair very

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	strong and at suture; arista short pubescent; palpus with 1 strong apical bristle; cheeks very narrow; shiny black or brown species (Malloch, 1933, as Dichrochirosa) ————————————————————————————————————
_	Anal vein of wing reaching margin, although weakly in some species;
4.	without the above combination of characters
	sutural); midfrontal stripe very short, tomentose; wing vein R ₁ extending
	apicad of anterior crossvein (Sciomyza fulvipennis Walker, generitype, and Melina albibasis Malloch; gender feminine)
_	Two or three pairs of dorsocentral bristles, none antesutural
5.	Three pairs of dorsocentral bristles; mesopleural bristle present; sterno- pleural bristles absent; midfrontal stripe scarcely extending beyond ocellar
	triangle; 1 pair of fronto-orbital bristles; wing hyaline (Pherbellia cal-
	lisceles Steyskal, generitype; gender feminine) Calliscia Steyskal, new genus Two or three pairs of dorsocentral bristles; both mesopleural and sterno-
	pleural bristles present or both absent or only sternopleurals present 6
6.	Second aristal segment about as long as wide; 3rd antennal segment rather
	short, rounded apically; 1 or 2 pairs of fronto-orbital bristles; sternopleural bristles present or absent; mesopleuron with or without hairs, without
	bristles; wing patterned or not
_	Second aristal segment 3–5 times longer than wide; 3rd antennal segment rather elongate and tapered apically; 2 pairs of fronto-orbital bristles
	(anterior pair sometimes small in Perilimnia); sternopleural bristles
7.	present; mesopleural bristle present or absent; wing hyaline
٠.	orbitals; 1 mesopleural bristle; male 4th abdominal sternum with short,
	dense, black spinules along posterior margin (Kaczynski, et al., 1969)
	Propleural bristle small; anterior orbital bristles well developed, almost
	as long and strong as posterior oribtals; no mesopleural bristles; male 4th
	abdominal sternum without short, dense, black spinules along posterior margin (Kaczynski, et al., 1969)
8.	Third antennal segment broadly rounded apically as in Pherbellia; ptero-
	pleuron with 1 or 2 bristles or bristly hairs; hind coxa without bristles or
	hairs above base of femur; 2 pairs of postsutural dorsocentral bristles (<i>P. apicalis</i> Malloch)
	Without the above combination of characters
9.	Vallar (subalar) bristles present10Vallar bristles absent11
10.	Arista with sparse blackish hairs; lunule covered; face without black
20.	central spot (Steyskal, 1974)
-	Arista densely white-pubescent; lunule broadly exposed; face with black central spot (Steyskal, 1950, 1953)
11.	Ocellar bristles well developed; 4 scutellar bristles
_	Ocellar bristles small and weak or lacking; 2 scutellar bristles
12.	Hind tibia with 2 dorsal preapical bristles (Fisher and Orth, 1971)
	Hind tibia with 1 or no dorsal preapical bristles

13.	Arista with white pubescence or hairs; wing with strong pattern
14.	Lunule exposed only mesally, between antennae; 2nd antennal segment
	about half as long as 3rd (Malloch, 1933) Euthycerina Malloch
_	Lunule broadly exposed; 2nd antennal segment at least almost as long as 3rd segment, sometimes much longer
15.	2nd antennal segment about as long as 3rd; head about as long as high
	(E. mira Knutson and Zuska) Euthycera Latreille
_	2nd antennal segment much longer than roundish 3rd segment; head at least 1.5 times as long as high (Steyskal, 1960) Teutoniomyia Hennig
16.	Meso- and pteropleuron without bristles or hairs; if hairs present on pos-
	terior part of mesopleuron then wing without dense pattern
	pattern18
17.	Sternopleuron with hairs only; arista long-haired to plumose (Steyskal,
	1959)
_	3 or 4 postsuturals; arista with short pubescence (Zuska and Berg, 1974)
	Tetanoceroides Malloch
18.	Fronto-orbital bristles 2; 1 strong sternopleural bristle; face without black central spot (Fisher and Orth, 1972)
_	Fronto-orbital bristle 1; sternopleural bristle lacking; face with or without
	black central spot
19.	Face with black central spot; body with many dark spots at bases of hairs and otherwise (Steyskal, 1954, 1960)
_	Face without black central spot; body largely plain tawny (G. straminata,
•	(Wulp)) Guatemalia Steyskal
20.	Sternum closed above hindcoxae; lower head drawn out into conical rostrum into which proboscis may be withdrawn; palpus not developed; post-
	ocellar and usually fronto-orbital bristles lacking; plcural sclerites without
	hairs or bristles, except a few hairs on propleuron close above forecoxa Thecomyia Perty
_	Sternum above hindcoxae divided by membranous area; lower head not
	forming tube into which proboscis may be withdrawn; palpus well de-
	veloped; postocellars present or absent; 1 or 2 pairs of fronto-orbital bristles; pleura frequently with numerous hairs
21.	Postocellar bristles absent; 1 pair of fronto-orbital bristles; midfemur with
	minute bristles or setae, none of which is distinctly larger than the others;
	hind femur almost twice as long as abdomen (Steyskal, 1951)
_	Postocellar bristles well developed; 0, 1, or 2 pairs of fronto-orbital
	bristles; midfemur with 1 or more distinctly larger anterior setae near its
22.	midlength; hind femur only about ¼ longer than abdomen
	outstanding dorsal bristle; male with surstyli fused along median line
	(Steyskal, 1951) Sepedonea Steyskal
	Face without spots in lower corners; forefemur without outstanding dorsal bristle; male with surstyli well separated on median line (Steyskal, 1951)
	Senedon Latreille

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